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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,567	10/516,567 04/0		Peter Joseph Unsworth	BKT-004US	5511
959	7590	12/08/2006		EXAMINER	
LAHIVE & ONE POST		FIELD, LLP	TSAI, CAI	TSAI, CAROL S W	
BOSTON, 1				ART UNIT	PAPER NUMBER
ŕ				2857	

DATE MAILED: 12/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/516,567	UNSWORTH ET AL.						
Office Action Summary	Examiner	Art Unit						
	Carol S. Tsai	2857						
The MAILING DATE of this communication a Period for Reply	appears on the cover shee	t with the correspondence address	s					
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMU 1.136(a). In no event, however, ma od will apply and will expire SIX (6) No tute, cause the application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of this commure ABANDONED (35 U.S.C. § 133).						
Status		•						
1) Responsive to communication(s) filed on 01	December 2004.							
•	his action is non-final.							
3) Since this application is in condition for allow	vance except for formal m	natters, prosecution as to the me	rits is					
closed in accordance with the practice unde	er Ex parte Quayle, 1935 (C.D. 11, 453 O.G. 213.						
Disposition of Claims		•						
4) Claim(s) 1-17 is/are pending in the applicati	Claim(s) <u>1-17</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withd	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1, 2, and 4</u> is/are rejected.								
7)⊠ Claim(s) <u>3 and 5-17</u> is/are objected to.								
8) Claim(s) are subject to restriction and	d/or election requirement.							
Application Papers								
9) The specification is objected to by the Exam	iner.							
10)⊠ The drawing(s) filed on <u>01 December 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the corr	ection is required if the draw	ring(s) is objected to. See 37 CFR 1.	121(d).					
11) The oath or declaration is objected to by the	Examiner. Note the attac	hed Office Action or form PTO-1	52.					
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for fore	ign priority under 35 U.S.	C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:		•						
 Certified copies of the priority docume 	ents have been received.							
2. Certified copies of the priority docume	ents have been received i	n Application No						
Copies of the certified copies of the p	riority documents have be	een received in this National Stag	je					
application from the International Bur	eau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a l	list of the certified copies	not received.						
	-							
Attachment(s) 1) Notice of References Cited (PTO-892)	4\ ☐ Intervi	ew Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)								
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)	of Informal Patent Application						
S Patent and Trademark Office		·						

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DETAILED ACTION

Claim Objections

1. Claims 5-16 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim 3. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 2, and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by U. S. Patent No. 5,463,904 to Kalinoski.

With respect to claims 1, 2, and 4, Kalinoski discloses a method of monitoring fluid flow in a closed conduit (conduit 22 shown on Fig. 1) including the disposition of a flowmeter (turbine flowmeter 26 shown on Fig. 1) through which the fluid to be monitored flows, generating a signal indicative of at least one characteristic of the fluid flow, characterised by measuring the signal components and retaining the fluctuations associated therewith, and analysing the said signal components and fluctuations to determine the at least one characteristic of the fluid flow (see Abstract, lines 1-12; col. 2, lines 12-30; and col. 4, lines 1-43).

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Allowable Subject Matter

4. Claims 3 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kleven discloses a method and apparatus measuring a parameter of a flowing fluid at a first location.

Kleven et al. disclose a method and apparatus measuring a fluid flow using generated vortices.

Kolahi discloses a method for online-determination of at least one characteristic value of a mass flowmeter operating by the Coriolis principal and incorporating a fluid-conducting Coriolis conduit.

Kleven et al. disclose a method for measuring fluid flow including generating vortices in a fluid and relating the fluid flow to a first set of fluid parameters to obtain a first relationship, and relating the fluid flow to a second set of fluid parameters to obtain a second relationship.

Kalinoski discloses a sensor for use in a vortex flow meter which is capable of measuring various physical characteristics of a flow in a single process penetration from a common source.

Herzl discloses a two-wire transmission system for a vortex-type flowmeter adapted to

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measure the flow rate of fluid passing through a conduit by generating fluidic oscillations giving rise to periodic pressure pulses whose repetition rate varies in accordance with flow rate.

Herzl discloses a two-wire transmission system for a vortex-type flowmeter whose sensor generates a low-level a-c signal having a frequency that depends on flow rate, the signal being fed to the input of a pre-amplifier adjacent the meter.

McMurtrie discloses a fluid mechanical arrangement of a bluff body flowmeter in a pipe line with a thermal sensor arrangement for sensing flow signals in that pipe and with a method and circuit for processing the sensed signals to subtract low frequency fluid noise signal that accompany sensed signal and extracting sensed signals related to the fluid flow rate through the pipe.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carol S. Tsai whose telephone number is (571) 272-2224. The examiner can normally be reached on M-F(8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571) 272-2216. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

cswt December 7, 2006 Art Unit 2857

> CAROL S.W. TSAI PRIMARY EXAMINER

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